

FIG. 1

TIME	PROCESS	APPARATUS A		APPARATUS B		APPARATUS C	
		DATA	UPDATE INFORMATION	DATA	UPDATE INFORMATION	DATA	UPDATE INFORMATION
t0		$\alpha 0(t_0, t_0)$	○	$\alpha 0(t_0, t_0)$	○	$\alpha 0(t_0, t_0)$	—
t1	UPDATE α IN APPARATUS C		○		○	$\alpha 1(t_0, t_1)$	—
t2	UPDATE α IN APPARATUS A	$\alpha 2(t_0, t_2)$	×		○		—
t3	SYNCHRONIZE BETWEEN APPARATUSES A AND B		○	$\alpha 2(t_0, t_2)$	○		—
t4	SYNCHRONIZE BETWEEN APPARATUSES A AND C		○		○	$\alpha 1(t_0, t_1)$	—
RESULT		$\alpha 2(t_0, t_2)$	○	$\alpha 2(t_0, t_2)$	○	$\alpha 1(t_0, t_1)$	—

FIG. 3

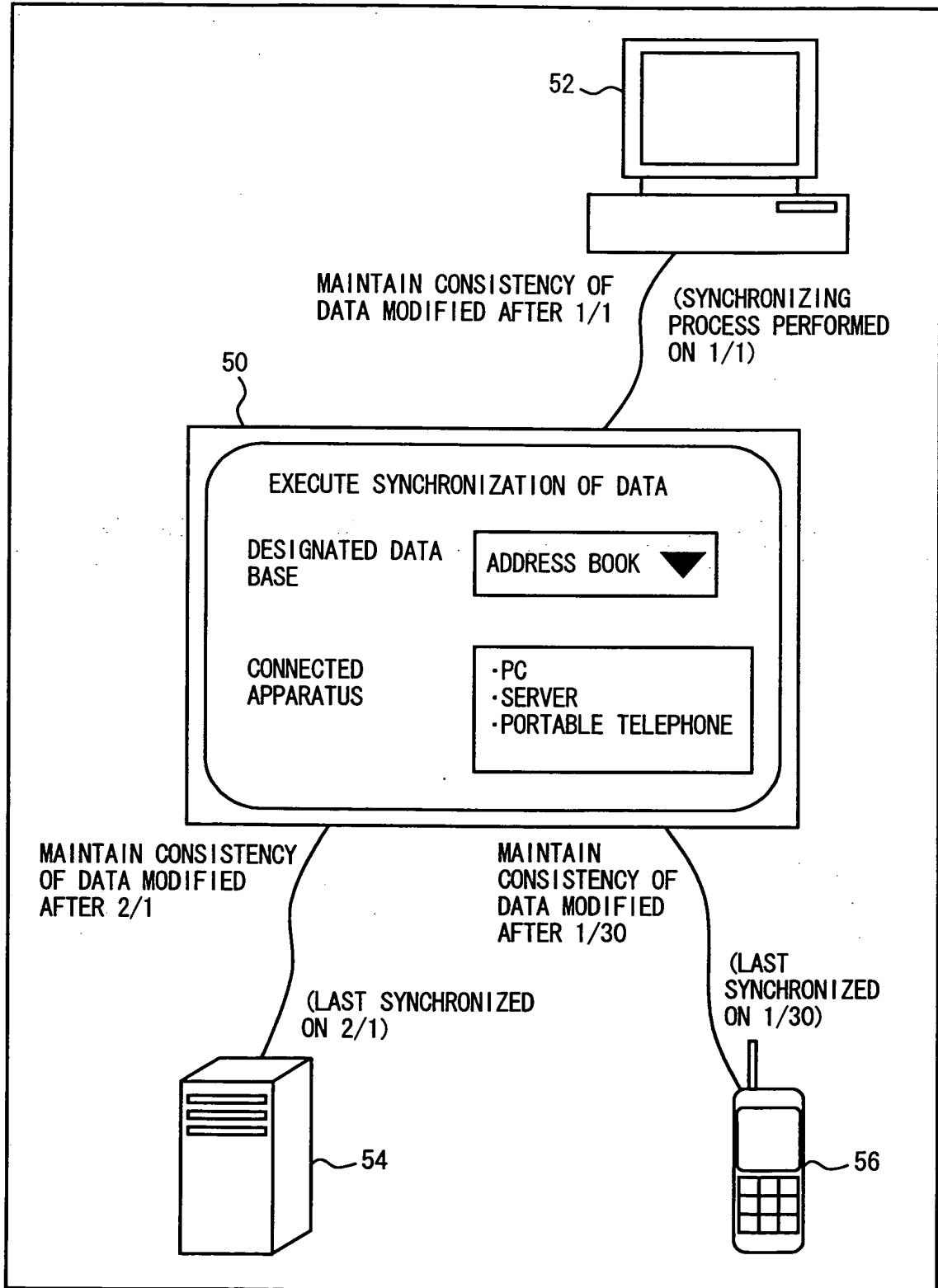
DATA BASE TYPE	DATA NUMBER	DATE AND TIME OF NEW CREATION	DATE AND TIME OF UPDATING	DATE AND TIME OF DELETION
ADDRESS BOOK	1	2000/01/01 00:01:23	2000/01/02 00:12:34	—
ADDRESS BOOK	2	2000/02/02 12:34:56	—	2000/02/22 21:10:00
SCHEDULE BOOK	1	2000/02/01 12:59:59	2000/02:02 10:00:00	2000/02/03 15:23:46

FIG. 4

APPARATUS NUMBER	APPARATUS IDENTIFICATION NUMBER	APPARATUS NAME	APPARATUS INFORMATION	DATA BASE TIME	DATE AND TIME OF SYNCHRONIZING PROCESS
1	123. 456. 789	PERSONAL PORTABLE TELEPHONE	PORTABLE TELEPHONE	ADDRESS BOOK	2000/01/01 00:01:23
2	000. 111. 222	OFFICE PC	PC	ADDRESS BOOK	2000/02/02 12:34:56
3	987. 654. 321	OFFICE SERVER	SERVER	SCHEDULE BOOK	2000/02/02 12:59:59

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FIG. 5



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FIG. 6

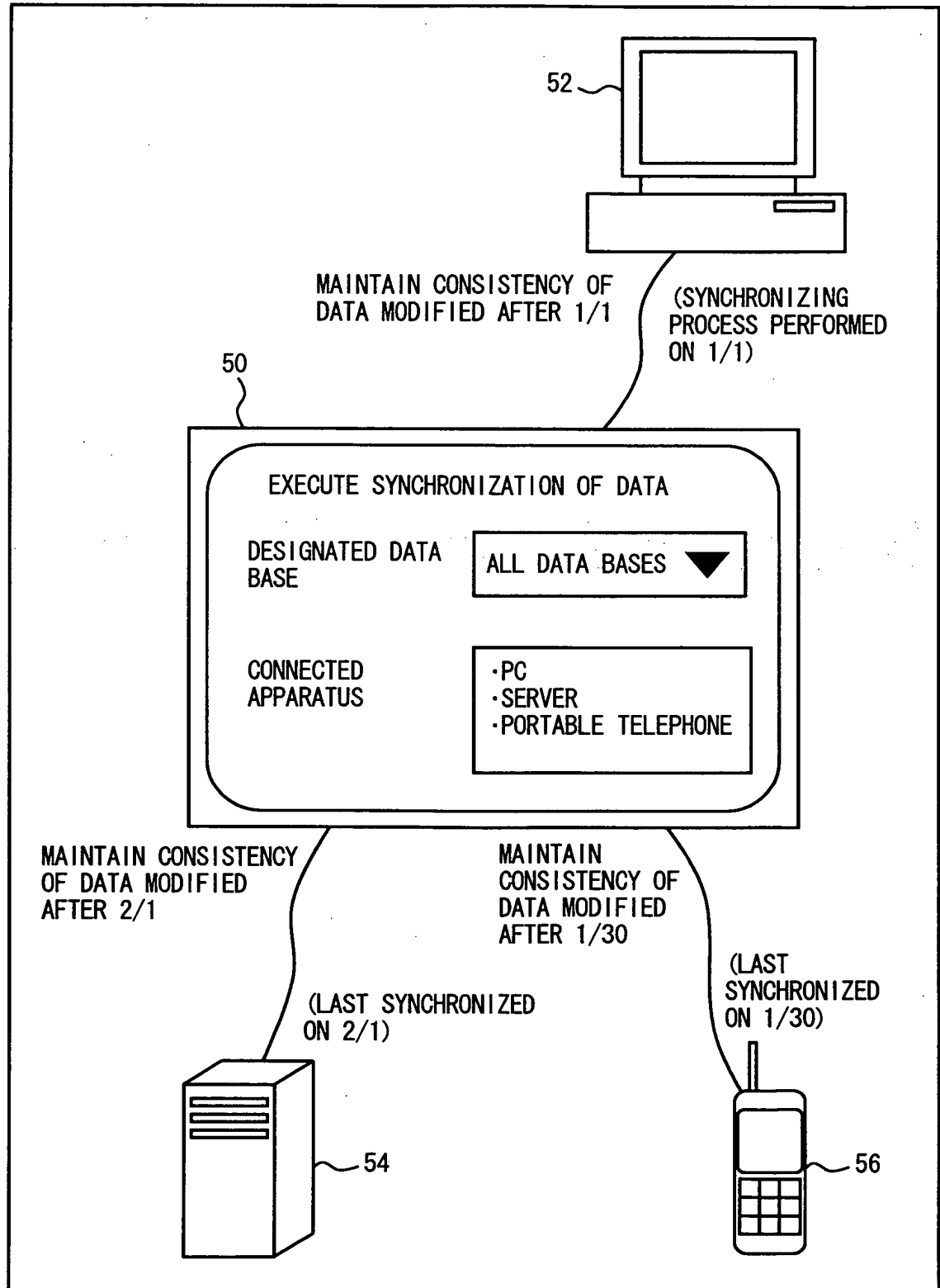
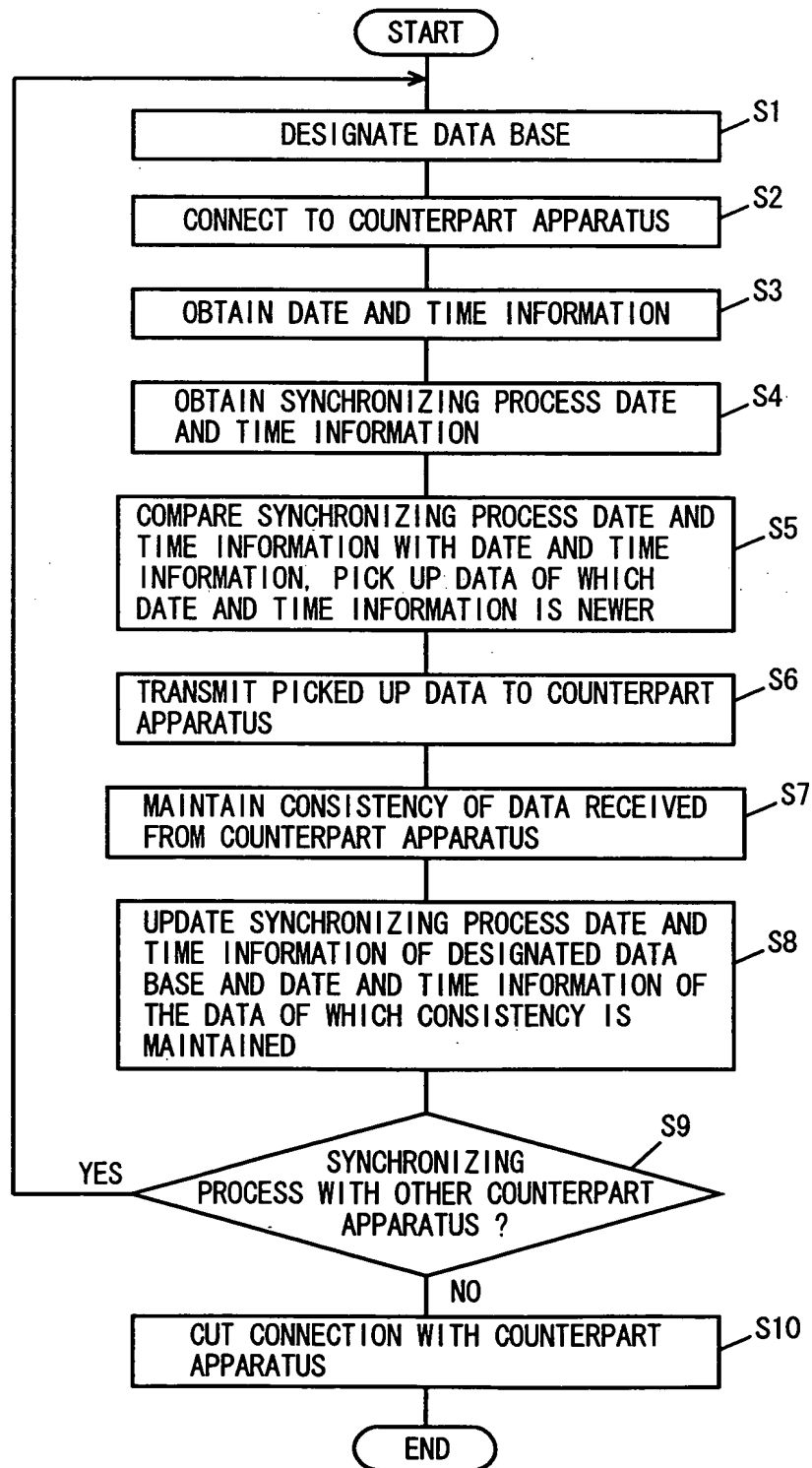
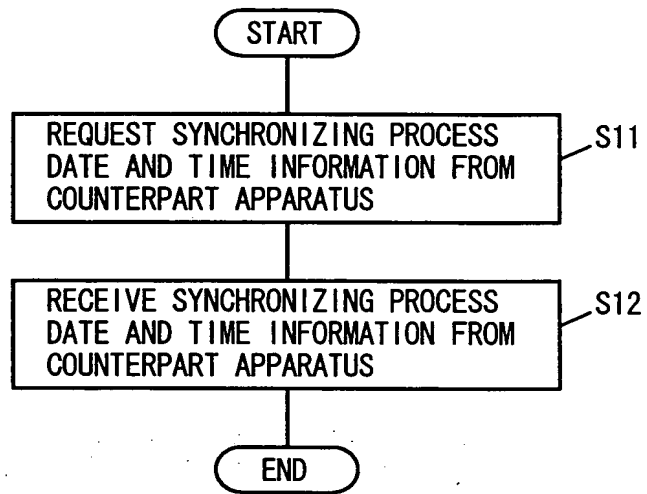


FIG. 7



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FIG. 8

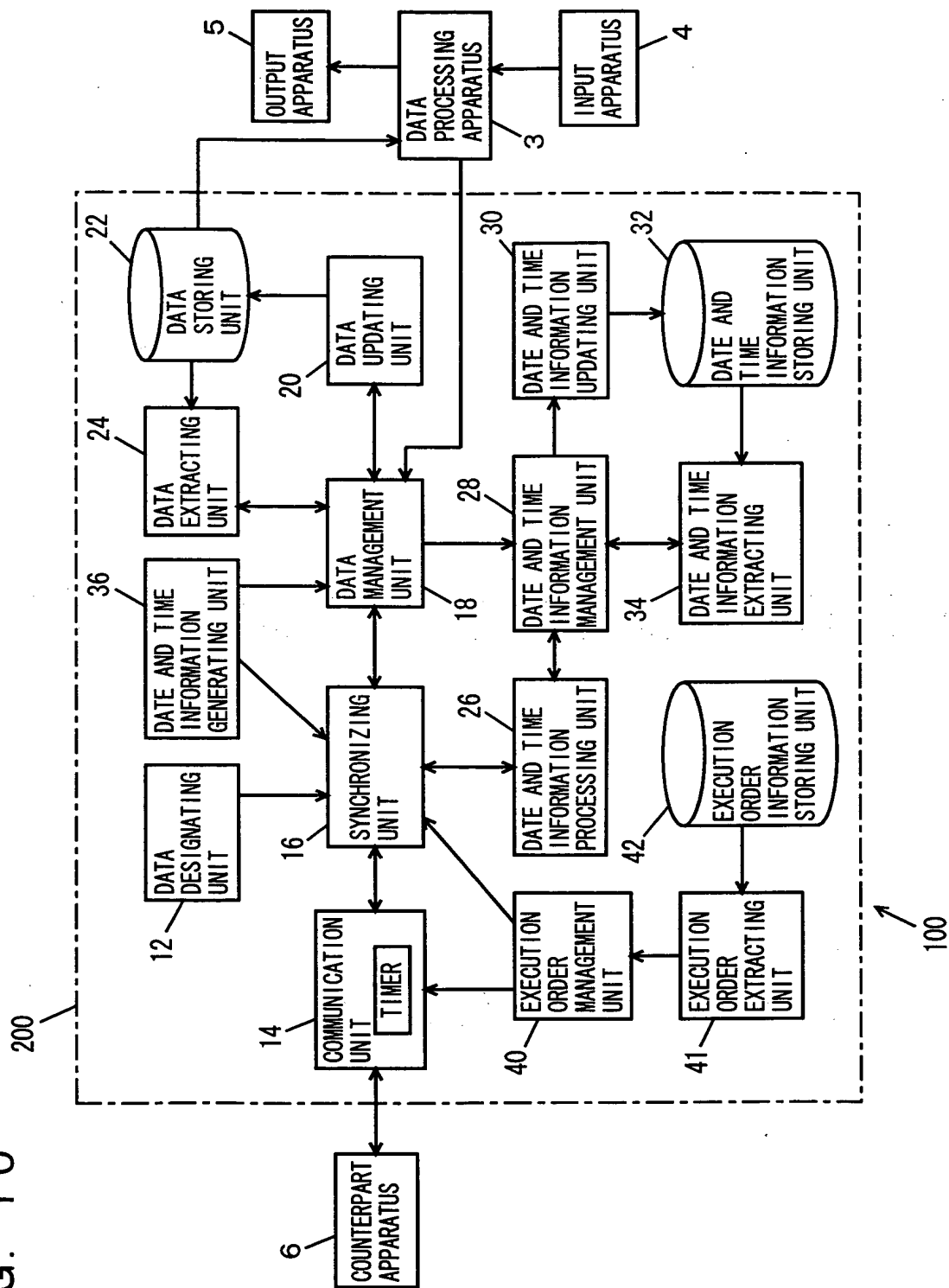


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FIG. 9

TIME	PROCESS	APPARATUS A			APPARATUS B		APPARATUS C	
		DATA	TIME POINT OF LAST SYNCHRONIZING PROCESS		DATA	DATA	DATA	DATA
			A - B	A - C				
t0	NEWLY CREATE DATA α IN APPARATUS A	$\alpha 0(t0, t0)$	—	—	—	—	—	—
t1	SYNCHRONIZING PROCESS BETWEEN APPARATUSES A AND B	$\alpha 0(t0, t0)$	—	—	$\alpha 0(t0, t0)$	—	—	—
t2	SYNCHRONIZING PROCESS BETWEEN APPARATUSES A AND C	$\alpha 0(t0, t0)$	t1	—	$\alpha 0(t0, t0)$	$\alpha 0(t0, t0)$	$\alpha 0(t0, t0)$	$\alpha 0(t0, t0)$
t3	UPDATE α IN APPARATUS C	$\alpha 0(t0, t0)$	t1	t2	$\alpha 0(t0, t0)$	$\alpha 1(t0, t3)$	$\alpha 1(t0, t3)$	$\alpha 1(t0, t3)$
t4	UPDATE α IN APPARATUS A	$\alpha 2(t0, t4)$	t1	t2	$\alpha 0(t0, t0)$	$\alpha 1(t0, t3)$	$\alpha 1(t0, t3)$	$\alpha 1(t0, t3)$
t5	SYNCHRONIZING PROCESS BETWEEN APPARATUSES A AND B	$\alpha 2(t0, t4)$	t1	t2	$\alpha 2(t0, t4)$	$\alpha 1(t0, t3)$	$\alpha 1(t0, t3)$	$\alpha 1(t0, t3)$
t6	SYNCHRONIZING PROCESS BETWEEN APPARATUSES A AND C	$\alpha 2(t0, t4)$	t5	t2	$\alpha 2(t0, t4)$	$\alpha 2(t0, t4)$	$\alpha 2(t0, t4)$	$\alpha 2(t0, t4)$
RESULT		$\alpha 2(t0, t4)$	t5	t6	$\alpha 2(t0, t4)$	$\alpha 2(t0, t4)$	$\alpha 2(t0, t4)$	$\alpha 2(t0, t4)$

FIG. 10

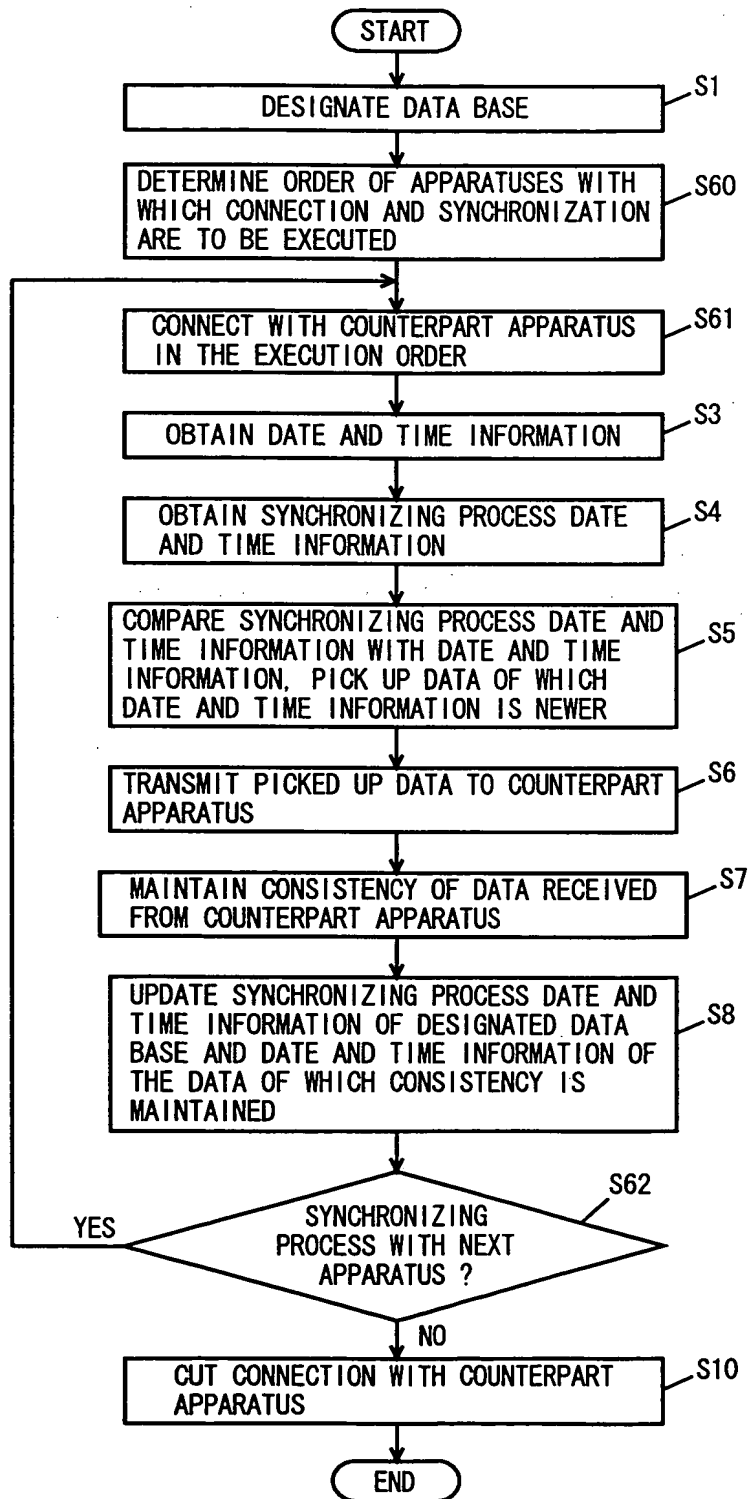


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NUMBER	APPARATUS IDENTIFICATION NUMBER	APPARATUS NAME	EXECUTION ORDER INFORMATION
1	123.456.789	PERSONAL PORTABLE TELEPHONE	1
2	000.111.222	OFFICE PC	3
3	987.654.321	OFFICE SERVER	2

FIG. 12

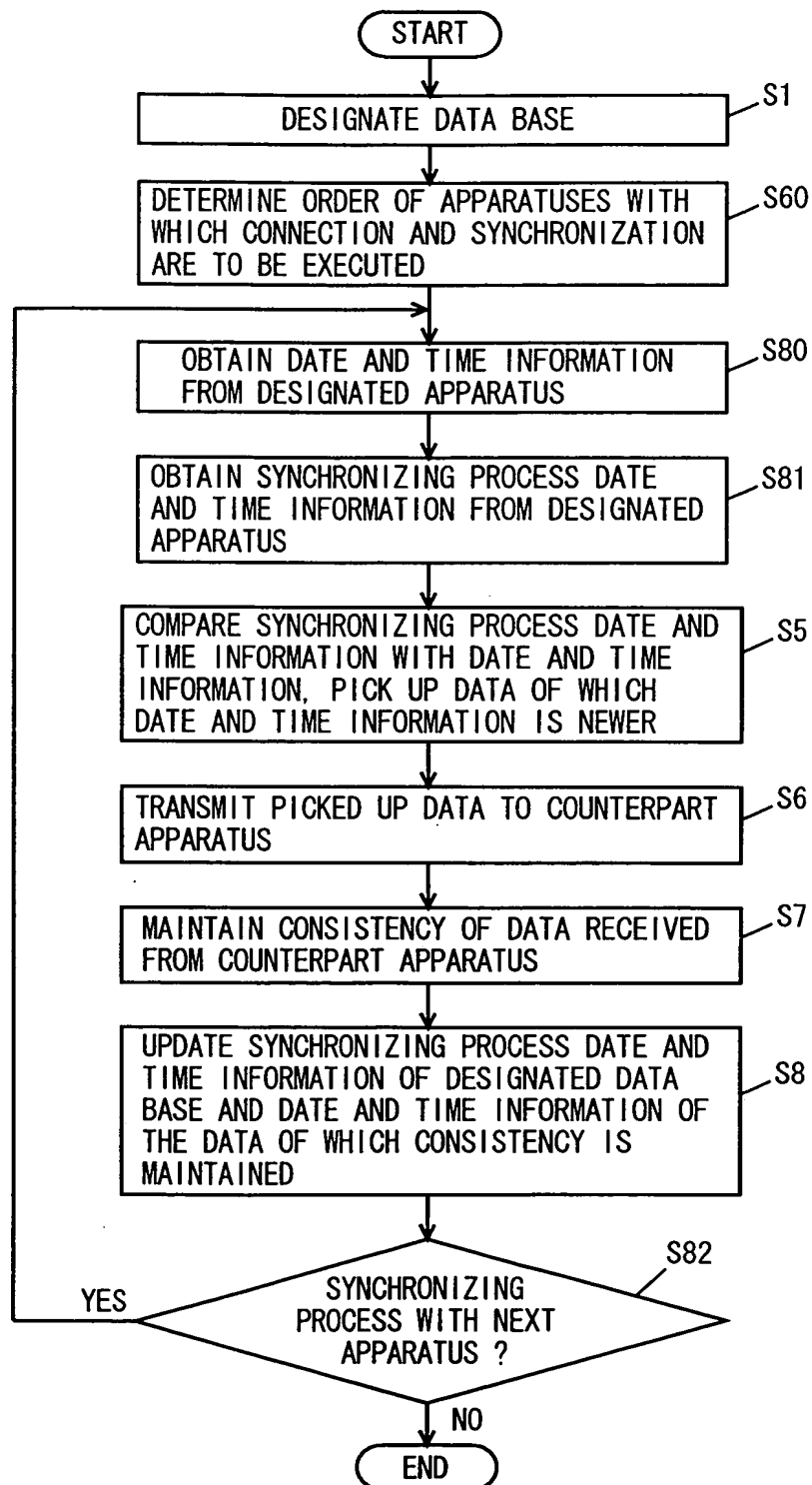


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FIG. 13

TIME	PROCESS	APPARATUS A					APPARATUS B		APPARATUS C		APPARATUS D	
		DATA		LAST SYNCHRONIZING PROCESS TIME			DATA		DATA		DATA	
		DATA α	DATA β	A - B	A - C	A - D	DATA α	DATA β	DATA α	DATA β	DATA α	DATA β
t0	NEWLY CREATE DATA α IN APPARATUS A	$\alpha 0(t0, t0)$	-	-	-	-	-	-	-	-	-	-
t1	NEWLY CREATE DATA β IN APPARATUS B	$\alpha 0(t0, t0)$	-	-	-	-	-	$\beta 0(t1, t1)$	-	-	-	-
t2	SYNCHRONIZING PROCESS BETWEEN APPARATUS A AND B	$\alpha 0(t0, t0)$	$\beta 0(t1, t1)$	t2	-	-	$\alpha 0(t0, t0)$	$\beta 0(t1, t1)$	-	-	-	-
t3	SYNCHRONIZING PROCESS BETWEEN APPARATUS A AND C	$\alpha 0(t0, t0)$	$\beta 0(t1, t1)$	t2	t3	-	$\alpha 0(t0, t0)$	$\beta 0(t1, t1)$	$\alpha 0(t0, t0)$	$\beta 0(t1, t1)$	-	-
t4	SYNCHRONIZING PROCESS BETWEEN APPARATUS A AND D	$\alpha 0(t0, t0)$	$\beta 0(t1, t1)$	t2	t3	t4	$\alpha 0(t0, t0)$	$\beta 0(t1, t1)$	$\alpha 0(t0, t0)$	$\beta 0(t1, t1)$	$\alpha 0(t0, t0)$	$\beta 0(t1, t1)$
t5	UPDATE α IN APPARATUS C	$\alpha 0(t0, t0)$	$\beta 0(t1, t1)$	t2	t3	t4	$\alpha 0(t0, t0)$	$\beta 0(t1, t1)$	$\alpha 1(t0, t5)$	$\beta 0(t1, t1)$	$\alpha 0(t0, t0)$	$\beta 0(t1, t1)$
t6	UPDATE α IN APPARATUS A	$\alpha 2(t0, t6)$	$\beta 0(t1, t1)$	t2	t3	t4	$\alpha 0(t0, t0)$	$\beta 0(t1, t1)$	$\alpha 1(t0, t5)$	$\beta 0(t1, t1)$	$\alpha 0(t0, t0)$	$\beta 0(t1, t1)$
t7	SYNCHRONIZING PROCESS BETWEEN APPARATUS A AND B	$\alpha 2(t0, t6)$	$\beta 0(t1, t1)$	t2	t3	t4	$\alpha 2(t0, t6)$	$\beta 0(t1, t1)$	$\alpha 1(t0, t5)$	$\beta 0(t1, t1)$	$\alpha 0(t0, t0)$	$\beta 0(t1, t1)$
t8	SYNCHRONIZING PROCESS BETWEEN APPARATUS A AND C	$\alpha 2(t0, t6)$	$\beta 0(t1, t1)$	t6	t3	t4	$\alpha 2(t0, t6)$	$\beta 0(t1, t1)$	$\alpha 2(t0, t6)$	$\beta 0(t1, t1)$	$\alpha 0(t0, t0)$	$\beta 0(t1, t1)$
t9	SYNCHRONIZING PROCESS BETWEEN APPARATUS A AND D	$\alpha 2(t0, t6)$	$\beta 0(t1, t1)$	t6	t8	t4	$\alpha 2(t0, t6)$	$\beta 0(t1, t1)$	$\alpha 2(t0, t6)$	$\beta 0(t1, t1)$	$\alpha 2(t0, t6)$	$\beta 0(t1, t1)$
RESULT		$\alpha 2(t0, t6)$	$\beta 0(t1, t1)$	t6	t8	t9	$\alpha 2(t0, t6)$	$\beta 0(t1, t1)$	$\alpha 2(t0, t6)$	$\beta 0(t1, t1)$	$\alpha 2(t0, t6)$	$\beta 0(t1, t1)$

FIG. 14



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